



## PATENT ABSTRACTS OF JAPAN

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**B41J 2/055**(21)Application number: **06253598**(71)Applicant: **BROTHER IND LTD**(22)Date of filing: **19 . 10 . 94**(72)Inventor: **IMAI KOJI**

## (54)PRINTER

## (57)Abstract:

**PURPOSE:** To provide a printer enabling high speed printing capable of reducing the pressure generated in the ink chamber adjacent to an ink chamber ejecting ink and capable of ejecting ink from an arbitrary ink chamber without preliminarily grouping ink chambers.

**CONSTITUTION:** When ink is ejected from ink chambers 4b, 4d, negative drive voltage  $-E1V$  is applied to the metal electrode 9 on the left side of a metal electrode 9b and the metal electrode 9 on the right side of a metal electrode 9e and positive drive voltage  $+E2V$  is applied to metal electrodes 9c, 9d. Whereupon, the ink chamber 4d is suddenly reduced in its vol. to eject an ink droplet and the ink chamber 4b is contrarily increased in its vol. to supply ink. Other ink chamber 4 is not suddenly changed in its vol. and pressure generating the flow of ink is not generated and no ink droplet is ejected. Next,

when the voltages applied to the metal electrodes 9 are returned to 0V, a partition wall 6 returns and ink is supplied in the ink chamber 4d and an ink droplet is ejected from the ink chamber 4b.

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